

## FORM PTO-1449

## U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. COG-2-0980.02.US

SERIAL NO. 10/707,588

APPLICANT Tesfai et al.

FILING DATE December 23, 2003 GROUP 2611

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF
	4,121,221	10/1978	Meadows			
	4,599,734	07/1986	Yamamoto			<del>-</del>
	4,639,914	01/1987	Winters			
	5,274,844	12/1993	Harrison et al.			
	5,394,435	02/1995	Weerackody			
	5,437,055	07/1995	Wheatley, III			
	5,457,808	10/1995	Osawa et al.			
	5,491,723	02/1996	Diepstraten			
	5,493,307	02/1996	Tsujimoto		1	
	5,507,035	04/1996	Bantz et al.			
	5,539,832	07/1999	Weinstein et al.			
	5,570,366	10/1996	Baker et al.			
	5,577,265	11/1996	Wheatley, III			
	5,610,617	03/1997	Gans et al.			
	5,752,173	05/1998	Tsujimoto			
	5,761,193	06/1998	Derango et al.			
	5,761,237	06/1998	Petersen et al.			
	5,812,531	09/1998	Cheung et al.			
	5,848,105	12/1998	Gardner et al.			
	5,854,611	12/1998	Gans et al.			
	5,898,679	04/1999	Brederveld et al.			
	5,912,921	06/1999	Warren et al.			
	5,924,020	07/1999	Forssen et al.			
	5,930,248	07/1999	Langlet et al.			
	5,982,327	11/1999	Vook et al.		1	

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	6,008,760	12/1999	Shattil			
	6,023,625	02/2002	Myers Jr.			<del></del>
	6,037,898	03/2000	Parish et al.			
	6,038,272	03/2000	Golden			
	6,044,120	03/2000	Bar-David et al.			
	6,058,105	05/2000	Hochwald et al.			
	6,091,934	07/2000	Berman et al.			
	6,097,771	08/2000	Foschini			
	6,118,788	09/2000	Kermani			
	6,122,260	09/2000	Liu et al.			,
	6,124,824	09/2000	Xu et al.			, ,
	6,141,393	10/2000	Thomas et al.			. ,
	6,141,567	10/2000	Youssefmir et al.			-
	6,144,651	11/2000	Rinchiuso et al.		,	
	6,144,711	11/2000	Raleigh et al.			
	6,147,985	11/2000	Bar-David et al.			
	6,157,340	12/2000	Xu et al.			· ·
	6,157,843	12/2000	Derango et al.			· ,
	6,177,906	01/2001	Petrus			
	6,185,440	02/2001	Barratt et al.			,
	6,195,045	02/2001	Xu et al.			<del></del>
	6,211,671	04/2001	Shattil	<u> </u>		<del></del>
	6,252,548	06/2001	Jeon			····
	6,252,884	06/2001	Hunter			·
	6,266,528	07/2001	Farzaneh	_		
	6,295,026	09/2001	Chen et al.			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,298,092	10/2001	Heath, Jr.			
	6,307,882	10/2001	Marzetta			
	6,317,466	11/2001	Foschini et al.			
	6,327,310	12/2001	Hochwald et al.			
	6,331,837	12/2001	Shattil			
	6,349,219	02/2002	Hochwald et al.			
	6,351,499	02/2002	Paulraj et al.			
	6,362,781	03/2002	Thomas et al.			
,	6,369,758	04/2002	Zhang			
	6,370,182	04/2002	Bierly et al.			
	6,377,631	04/2002	Raleigh			
	6,377,636	04/2002	Paulraj et al.			
	6,377,819	04/2002	Gesbert et al.			
	6,400,699	06/2002	Airy et al.			
	6,400,780	06/2002	Rashid-Farrokhi et al.			
	6,442,214	08/2002	Boleskei et al.			
	6,462,709	10/2002	Choi	1		
	6,463,295	10/2002	Yun			
	6,473,467	10/2002	Wallace et al.			
	6,522,898	02/2003	Kohno et al.			
	6,549,786	04/2003	Cheung			
	6,570,929	05/2003	Eriksson			
	6,584,161	06/2003	Hottinen			
-	6,636,568	10/2003	Kadous			
	6,646,600	11/2003	Vail et al.			
	6,684,064	01/2004	Kazakevich et al.			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,687,492	02/2004	Sugar et al.			
	6,728,517	04/2004	Sugar et al.	<u> </u>		
	6,862,271	03/2005	Medvedev et al.			
	6,873,606	03/2005	Agrawal et al.			
	6,873,651	03/2005	Tesfai et al.			
*	6,901,122	05/2005	Nadgauda et al.			
	6,940,917	09/2005	Menon et al.			
	6,956,907	10/2005	Ketchum, John W.			
*	6,980,600	12/2005	Ratnarajah			
*	7,342,875	03/2008	Hammons et al.			
	2001/0012764	08/2001	Edwards et al.			
	2001/0015994	08/2001	Nam			
	2001/0046255	11/2001	Shattil			
	2001/0053143	12/2001	Li et al.			
	2002/0001316	01/2002	Hornsby et al.			
	2002/0024975	02/2002	Hendler			
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	2002/0039884	04/2002	Raynes et al.			
	2002/0045435	04/2002	Fantaske			
	2002/0064246	05/2002	Kelkar et al.			
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	2002/0072392	06/2002	Awater et al.			
	2002/0085643	07/2002	Kitchener et al.			
	2002/0102950	08/2002	Gore et al.			
	2002/0111142	08/2002	Klimovitch			
	2002/0118781	08/2002	Thomas et al.			-

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	2002/0122383	09/2002	Wu et al.			
	2002/0122501	09/2002	Awater et al.	1 .		
	2002/0127978	09/2002	Khatri			
	2002/0136170	09/2002-	Struhsaker			
	2002/0141355	10/2002	Struhsaker et al.			<u> </u>
	2002/0147032	10/2002	Yoon et al.			
	2002/0158801	10/2002	Crilly, Jr. et al.			
	2002/0159537	10/2002	Crilly, Jr.			
	2002/0172186	11/2002	Larsson			
	2002/0172269	11/2002	Xu			
	2002/0196842	12/2002	Onggosanusi et al.			
	2003/0002450	01/2003	Jalali et al.			
	2003/0022693	01/2003	Gerogiokas et al.			
	2003/0032423	02/2003	Boros et al.			
	2003/0048761	03/2003	Jarett			
	2003/0108117	06/2003	Ketchum et al.			
	2003/0114108	06/2003	Frecassetti et al.			
	2003/0125090	07/2003	Zeira			
	2003/0139194	07/2003	Onggosanusi et al.			
	2003/0157954	08/2003	Medvedev et al.			
	2003/0181165	09/2003	Sugar et al.			
	2004/0072546	04/2004	Sugar et al.			· ***
	2004/0104839	06/2004	Valazquez et al.			
	F	OREIGN PATE	ENT DOCUMENTS	<u> </u>	<del></del>	
EXAMINER INITIAL						TRANSLATION
parine.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES NO

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FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. SERIAL NO. COG-2-0980.02.US 10/707,588		
	APPLICANT Tesfai et al.		
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EXAMINER					SUBCLASS	TRANSLATION		
INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS		YES	NO	
	01/45300	06/2001	WO					
	02/03568	01/2002	WO	. ,		,		
		OTHER D	OCUMENTS					
EXAMINER INITIAL	DESCR	IPTION (Includi	ng Author, Title, Date, Perti	nent Pages, E	tc.)			
	"BLAST High-Level Overview", Lucent Technologies, July 18, 2000.							
	"Lucent's 'BLAST' Chips to Take Off in Wireless Market", EETimes.com, October 16, 2002.							
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	Bablan et al., "Optimum Diversity Combining and Equalization in Digital Data Transmission with Applications to Cellular Mobile Radio-Part II: Numerical Results"; May 1992; IEEE Transactions on Communications, vol. 30, No. 5; pp. 895-907.							
	Briesemeister et al., "Role-Based Multicast in Highly Mobile but Sparsely Connect Ad-Hoc Networks"; First Annual Workshop on Mobile Ad Hoc Networking & Computing; pp. 45-50; August 2000.							
	Brunner et al., "Downlink Beamforming for WCDMA Based on Uplink Channel Parameters"; Proceedings of 3r European Personal Mobile Conference (EPMCC '99), March 1999, pp. 375-380.							
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EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
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